

IN THE CLAIMS

Please amend claims 1-4 and 6-20 as follows:

1. (Amended) An apparatus employed in a vacuum cleaner, [the apparatus comprising:

a suction assembly;

a dust collecting chamber collecting air and dust through an air path, wherein the air path connects the suction assembly to a connecting pipe by a negative pressure;

a driving portion generating the negative pressure and activated by manipulating a driving switch disposed on a handle portion;

a floor cloth rotatably driven in the suction assembly to clean a cleaning surface, the floor cloth arranged in a plane;

A10 a rotary member rotatably disposed on a lower end of the suction assembly, for supporting the floor cloth, wherein the floor cloth rotates in a plane substantially parallel to the cleaning surface and the plane of the floor cloth;

rotary driving means controlled by the manipulation of the driving switch, wherein the driving switch supplies an activated state for supplying a driving force to rotate the rotary member; and

power supplying means for supplying an electric signal from the manipulation of the driving switch to the rotary driving means.

2. (Amended) The apparatus of claim 1, wherein the power supplying means is disposed on the connecting pipe that is

protected from the air path by a protective cover and includes a power terminal electrically connected to the driving switch of the handle portion, and a power conductor for electrically connecting the power terminal to the rotary driving means.

3. (Amended) The apparatus of claim 1, the rotary driving means includes a bi-directional rotary motor having a pair of rotary shaft portions, wherein one of the pair of rotary shaft portions is formed on each side of the rotary motor and simultaneously rotate with each other by the power supplied from the power supplying means, and the rotary shaft portions connect to a power transmission unit for transmitting a driving force of the rotary shaft portions to the rotary member.

A 10

4. (Amended) The apparatus of claim 3, wherein the power transmission unit includes a pair of worm gear members connected to the rotary shaft portions for rotation in the same direction as the rotary shaft portions rotate; and transmission gears meshed with the pair of worm gear members for converting a rotational force in the direction the worm gear members rotate into a rotational force in a direction perpendicular to the rotational direction of the worm gear members and transmitting the converted rotational force to the rotary member.

6. (Amended) The apparatus of claim 4, wherein the worm gear members have threads formed on outer circumferences thereof in an opposite direction from each other, for rotation in the opposite direction when the transmission gears are rotated.

A 11

7. (Amended) The apparatus of claim 3, wherein the power transmission unit includes transmission gears connected to the rotary member; and a worm gear member having a worm gear portion formed on an outer circumference of the worm gear member for being meshed with the transmission gears, and a key portion formed on one end of the worm gear member for being connected to one of the pair of rotary shaft portions of the rotary driving means in a keyway.

8. (Amended) The apparatus of claim 7, wherein either the key portion of one of the pair of rotary shaft portions has a key groove having a non-circular section formed on one end, while either the key portion of one of the pair of rotary shaft portions without the key groove has a key portion that is formed on one end having corresponding shape to the key groove.

A 11
9. (Amended) The apparatus of claim 7, wherein the worm gear member has threads formed on the outer circumference in an opposite direction so that the transmission gears can be rotated in the opposite direction.

10. (Amended) The apparatus of claim 3, wherein the power transmission unit includes transmission gears connected to the rotary member; and a worm gear member having a worm gear portion formed on an outer circumference of the worm gear member for being meshed with the transmission gears, and a connecting portion formed on one end of the worm gear member for being screwed to one of the pair of rotary shaft portions of the rotary driving means.

11. (Amended) The apparatus of claim 10, wherein one of the connecting portion and the rotary shaft portions has a male thread formed on the outer circumference, while one of the connecting portion and the rotary shaft portion without the male thread has a female thread formed on the end corresponding to the male thread.

12. (Amended) The apparatus of claim 11, wherein the male thread and the female thread formed on the connecting portion and the rotary shaft portions are left-hand threads for screw-fastening when the rotary shaft portions are rotated on the rotary motor in a clockwise direction.

A 11
13. (Amended) The apparatus of claim 11, wherein the male thread and the female thread formed on the connecting portion and the rotary shaft portions are right-hand threads for screw-fastening when the rotary shaft portions are rotated on the rotary motor in a counterclockwise direction.

14. (Amended) The apparatus of claim 11, wherein the male thread and the female thread on the outer circumference of the worm gear member is formed in an opposite direction so that the transmission gears are rotated in the opposite direction.

15. (Amended) The apparatus of claim 3, further comprising a casing member formed in the suction assembly for enclosing the rotary driving means, thereby screening the rotary driving means from the air path of the suction assembly.

16. (Amended) The apparatus of claim 15, wherein the casing member has a lower casing having openings formed on a bottom

through which the power transmission unit is directly connected to the rotary member and a plurality of fixing means for rotatably supporting the power transmission unit; and an upper casing connected to an upper portion of the lower casing for screening the rotary driving means mounted on the lower casing from the outside.

17. (Amended) The apparatus of claim 1, further comprising removable means for removably supporting the floor cloth onto the rotary member.

A11 18. (Amended) The apparatus of claim 17, wherein the removable means includes at least one hook and loop fastener disposed on a lower surface of the rotary member in a predetermined pattern.

19. (Amended) The apparatus of claim 18, wherein the hook and loop fastener is seated on a plurality of recesses formed on the lower surface of the rotary member around a center of rotation at a uniform distance from each other.

20. (Amended) The apparatus of claim 18, wherein the hook and loop fastener is disposed on the lower surface of the rotary member around the center of rotation at an angle of 120°.

Please add new claims 28 as follows:

A12 28. (New) The apparatus of claim 1 wherein the plane of the floor cloth is arranged to be substantially entirely in contact with the cleaning surface.

IN THE DRAWINGS

Please amend FIG. 1 as shown in red in the attached drawing to correctly identify the figure as PRIOR ART.